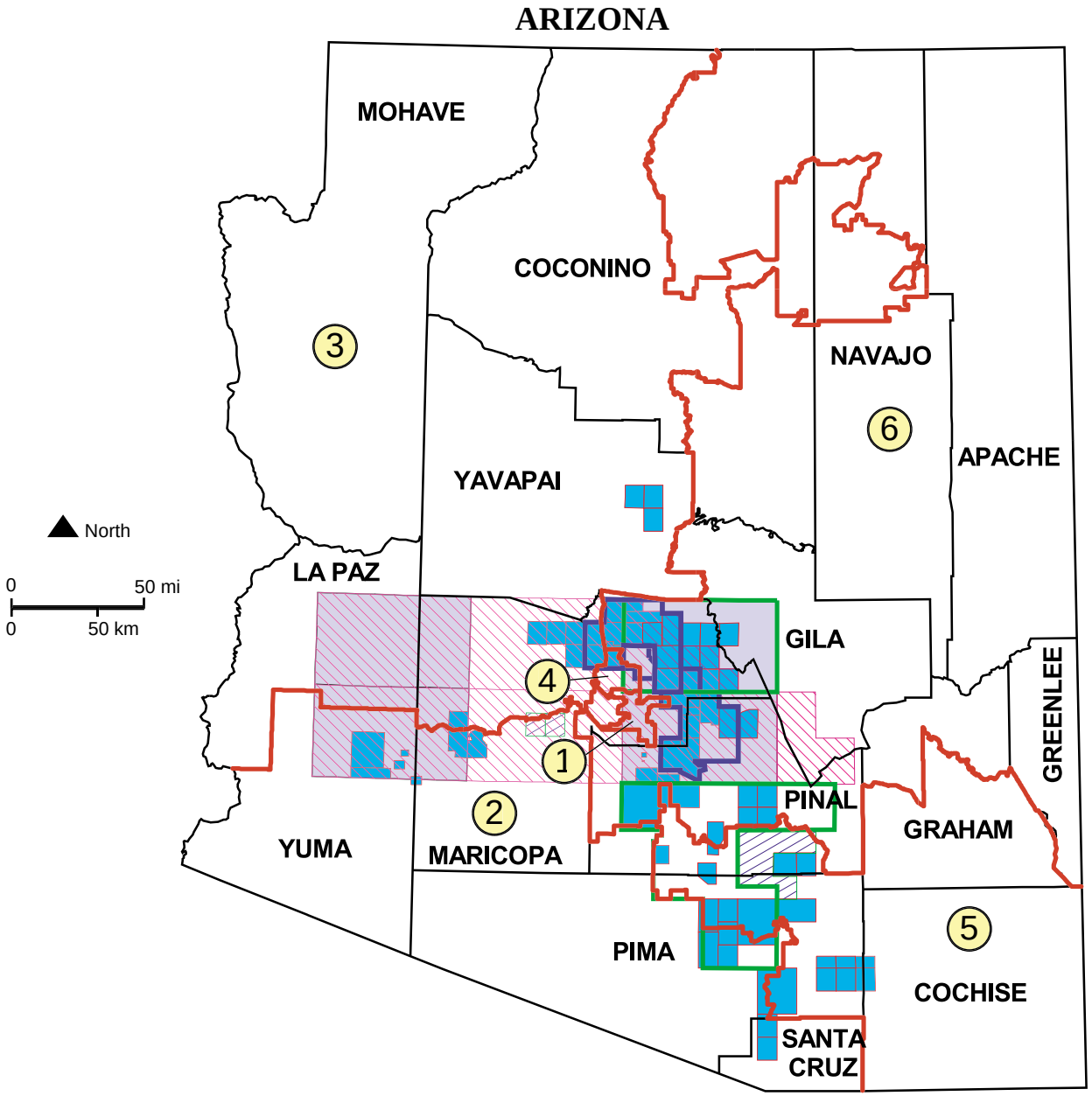
Association of American State Geologists

United States Geological Survey

National Cooperative Geologic Mapping Program

STATEMAP Component: States compete for federal matching funds for geologic mapping



Geologic Mapping and Digital Geologic Database Compilation
Funded by STATEMAP 1994-2002

- Congressional Districts
- 1:100,000 scale digital geologic database
- 1:24000 scale bedrock and surficial mapping 1994-1999

In progress 2000-2001, and funded 2001-2002

- Bedrock and surficial mapping 2000-2001
- 1:24000 digital compilation 2000-2001
- 1:100,000 digital geologic database compilation

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SUMMARY OF STATEMAP
GEOLOGIC MAPPING PROGRAM IN ARIZONA

Federal Fiscal Year	Project Title	State Dollars	Federal Dollars	Total Project Dollars
1993	Western Arizona: SE Plomosa Mts., 1:12,000; Tank and Palomas Mts., 1:24,000; central Gila Bend Mts., 1:50,000; Salome and Little Horn 30' x 60' sheets, 1:100,000	$92,464	$80,161	$172,625
1994	North and east of Phoenix: Picketpost Mtn., Florence Jnct., Superstition Mountains SW, 1:24,000; east half of Mesa 30' x 60' Quadrangle, 1:100,000; surficial maps of ten 7 1/2' quadrangles north and east of Phoenix	80,000	80,000	160,000
1995	North and east of Phoenix: Apache Junction and Buckhorn 7 1/2' quads, 1:24,000; Mesa 30' x 60', 1:100,000; surficial maps of five 7 1/2' quadrangles NE of Phoenix	55,000	55,000	110,000
1996	East of Phoenix: Mormon Flat Dam and Horse Mesa 7 1/2' Quadrangles, 1:24,000; surficial map of Theodore Roosevelt Lake 30' x 60' Quadrangle, 1:100,000	136,247	136,247	272,494
1997	East of Phoenix: Five 7 1/2' quads, 1:24,000; Digital maps of the Mesa and portions of the Theodore Roosevelt Dam and Globe 30' x 60' Quad; Surficial maps of the Casa Grande area, six 7 1/2' quadrangles	151,042	151,036	302,078
1998	North and west of Tucson: Sawtooth Mts., Samaniego Hills, Picacho Mts., and Ninetysix Hills, 1:24,000; Surficial maps of Tucson Mts.and Catalina Foothills	135,582	135,577	271,159
1999	Greater Tucson area: Western Avra Valley and Roskruge Mountains, six 7 1/2' quads, 1:24,000; Oracle - Catalina area, two 7 1/2' quads, 1:24,000; Green Valley area, four 7 1/2' quads, 1:24,000	127,123	126,401	253,524
2000	Phoenix - Tucson corridor: Mescal - Vail area, four 7 1/2' quads, 1:24,000; surficial maps, Tubac - Amado area, two 7 1/2' quads; digital maps, Tucson - Phoenix corridor, 1:24,000 and 1:100,000	147,633	145,535	293,168
2001	Phoenix - Tucson corridor: Tortolita Mts., Tucson area, 1;24,000; Buckeye Hills, Phoenix area, 1:24,000; Digital map compilation, Tucson - Phoenix corridor, 1:24,000 and 1:100,000	227,614	227,325	454,939
	TOTALS	**$1,152,705**	**$1,137,282**	**$2,289,987**

For the past 50 years, Arizona has had one of the fastest population-growth rates, and rapid growth is expected to continue. Most of the growth has been, and will continue to be, in the metropolitan Phoenix and Tucson areas in southern Arizona. Approximately 80 percent of Arizona's population of 5 million people live in the 20 percent of the state known as the Phoenix–Tucson metropolitan corridor, which also includes many smaller communities along Interstate Highways 8, 10, 17, and 19. The rest of the state also is experiencing rapid population growth, but populations are much smaller.

In recognition of this large and rapidly growing population, and to follow the intent of the National Geologic Mapping Act to address societal needs, the Arizona Geologic Mapping Advisory Committee strongly recommended that the Arizona Geological Survey give highest priority to completing detailed geologic maps and digital map products in the Phoenix–Tucson corridor. The Arizona Geological Survey will soon complete mapping this area. The next phase will be to map outlying, smaller communities and developing areas. The Advisory Committee will recommend priorities.

May 2001